

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-326146

(43)Date of publication of application : 12.12.1995

(51)Int.Cl.

G11B 21/10  
G11B 5/596

(21)Application number : 03-002317

(71)Applicant : INTERNATL BUSINESS MACH CORP  
<IBM>

(22)Date of filing : 11.01.1991

(72)Inventor : YU MANTLE M

(30)Priority

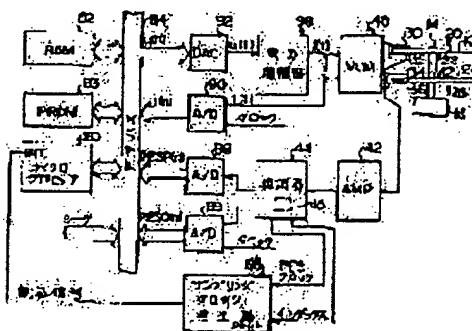
Priority number : 90 479497 Priority date : 13.02.1990 Priority country : US

## (54) DATA RECORDING DISK FILE

(57)Abstract:

PURPOSE: To exclude a non-repetitive relative movement between a head and disk, by generating an estimate of a sine wave function indicative of a major sine wave component of non-repetitive run-out in one turn of the disk and deriving a non-repetitive run-out signal from the sine wave function.

CONSTITUTION: At the time of inputting electromagnetic wave, design constants are input from a PROM 83. Subsequently, head position error signal(PES) is input to a microprocessor 80 and then a sampled value of the PES is input thereto. When the sampled value is within an allowable threshold range, the microprocessor a time term and a period of non-repetitive run-out signal(NRRO). After this, the microprocessor calculates a sampled value of the PES and stores it in a RAM 82. The microprocessor 80 calculates an NRRO signal and thereafter, when the value of a digital counter is incremented, the microprocessor is put in such a state that can accepts the next PES.



## LEGAL STATUS

[Date of request for examination] 11.01.1991

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2539951

[Date of registration] 08.07.1996

[Number of appeal against examiner's decision of

BEST AVAILABLE COPY

rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

08.07.2002

Copyright (C); 1998,2003 Japan Patent Office

**BEST AVAILABLE COPY**